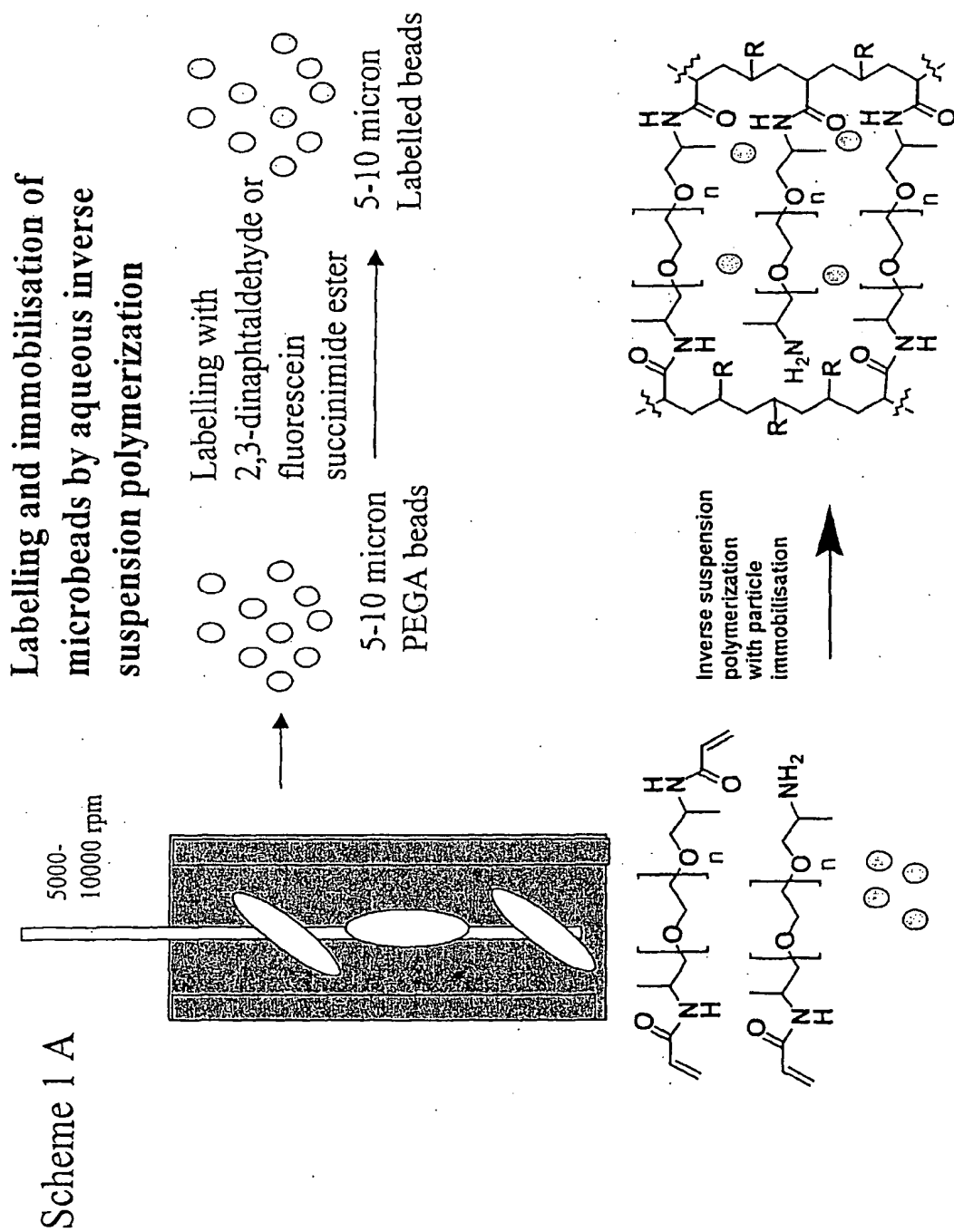
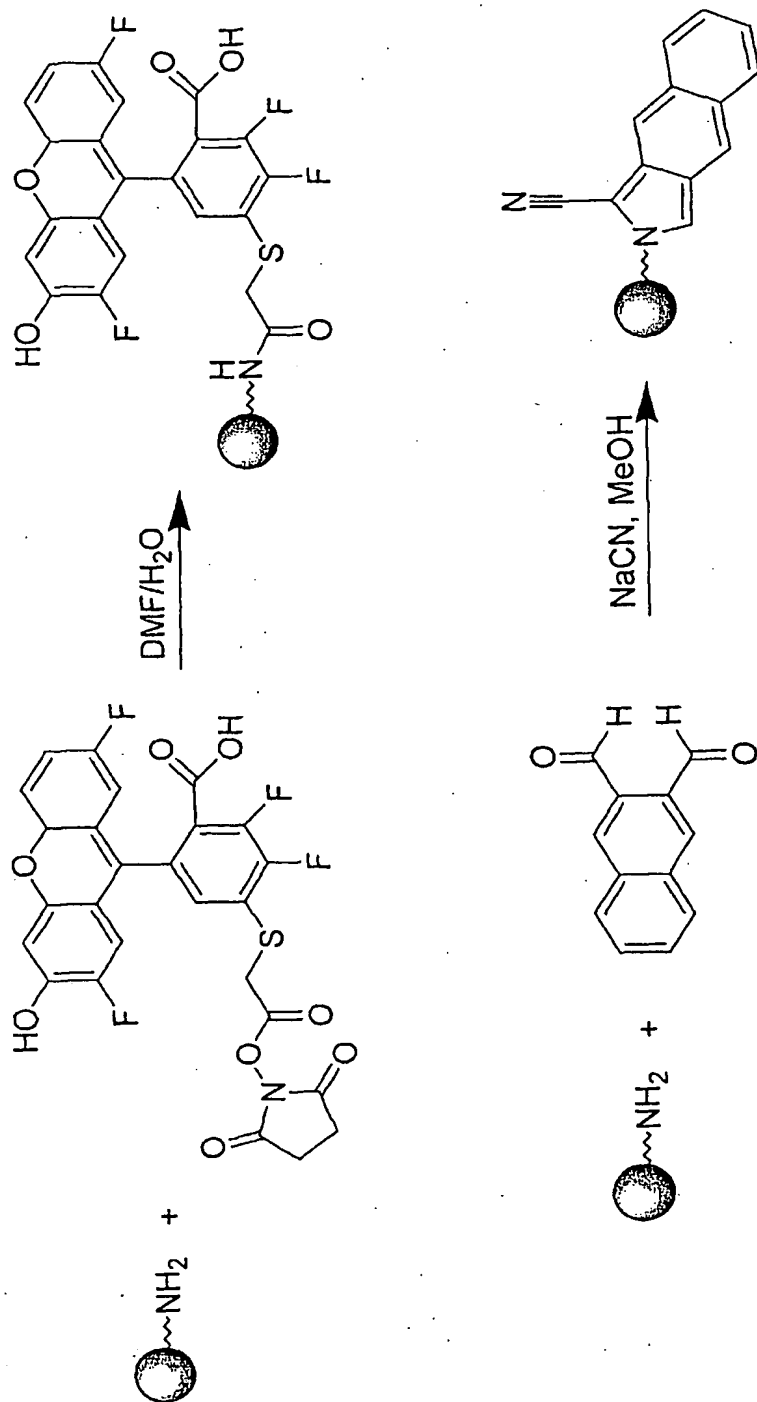


1/34

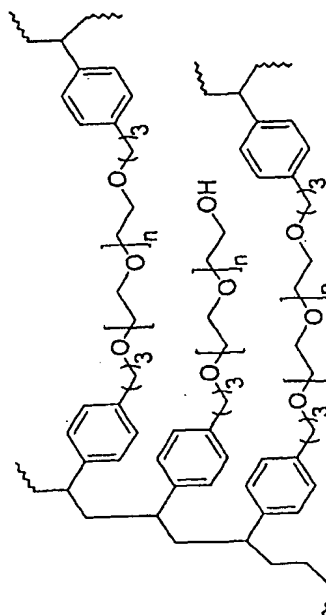
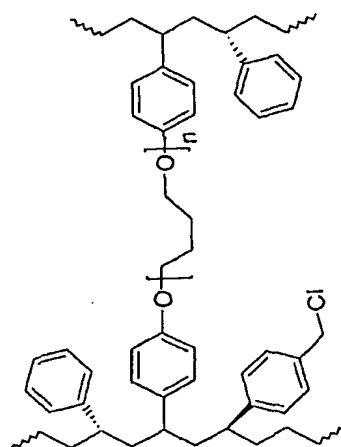
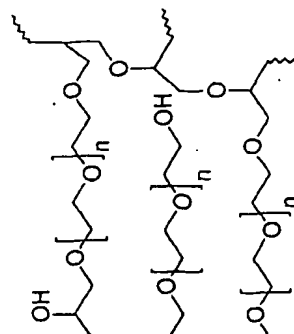
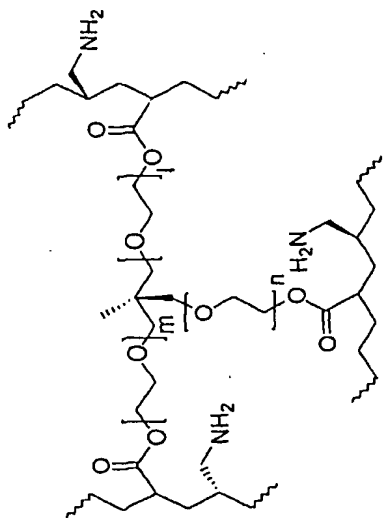
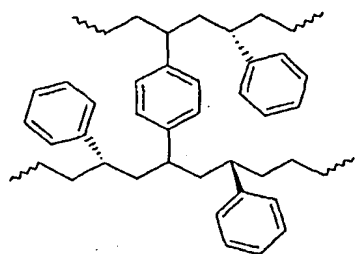
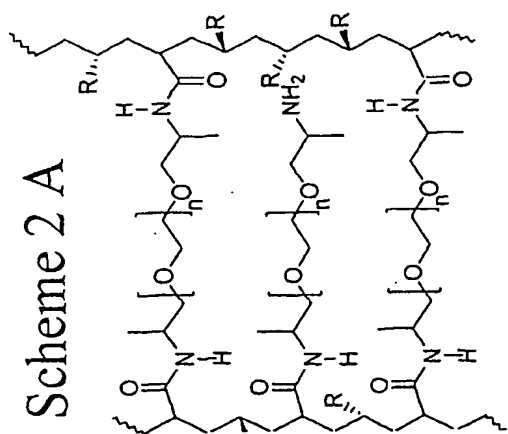


2/34

Scheme 1 B



3/34



4/34

Scheme 2 B

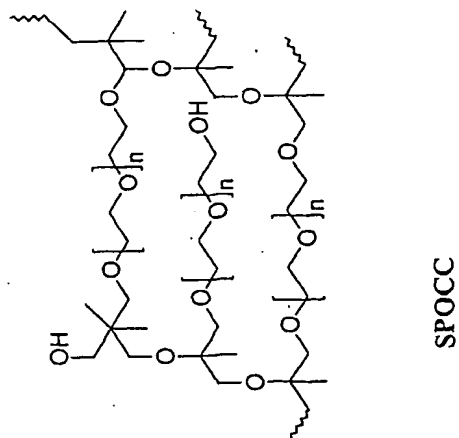
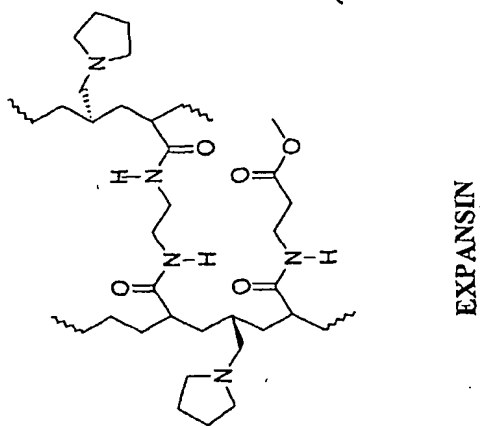
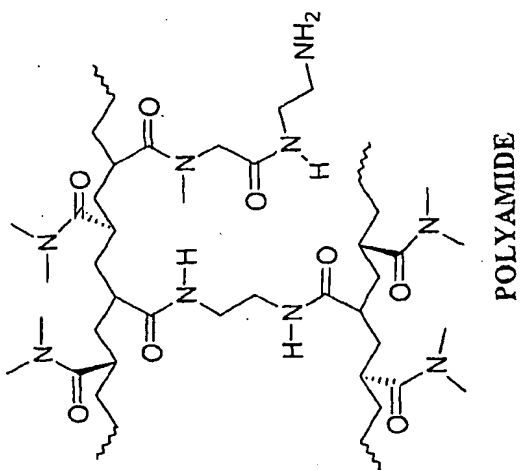
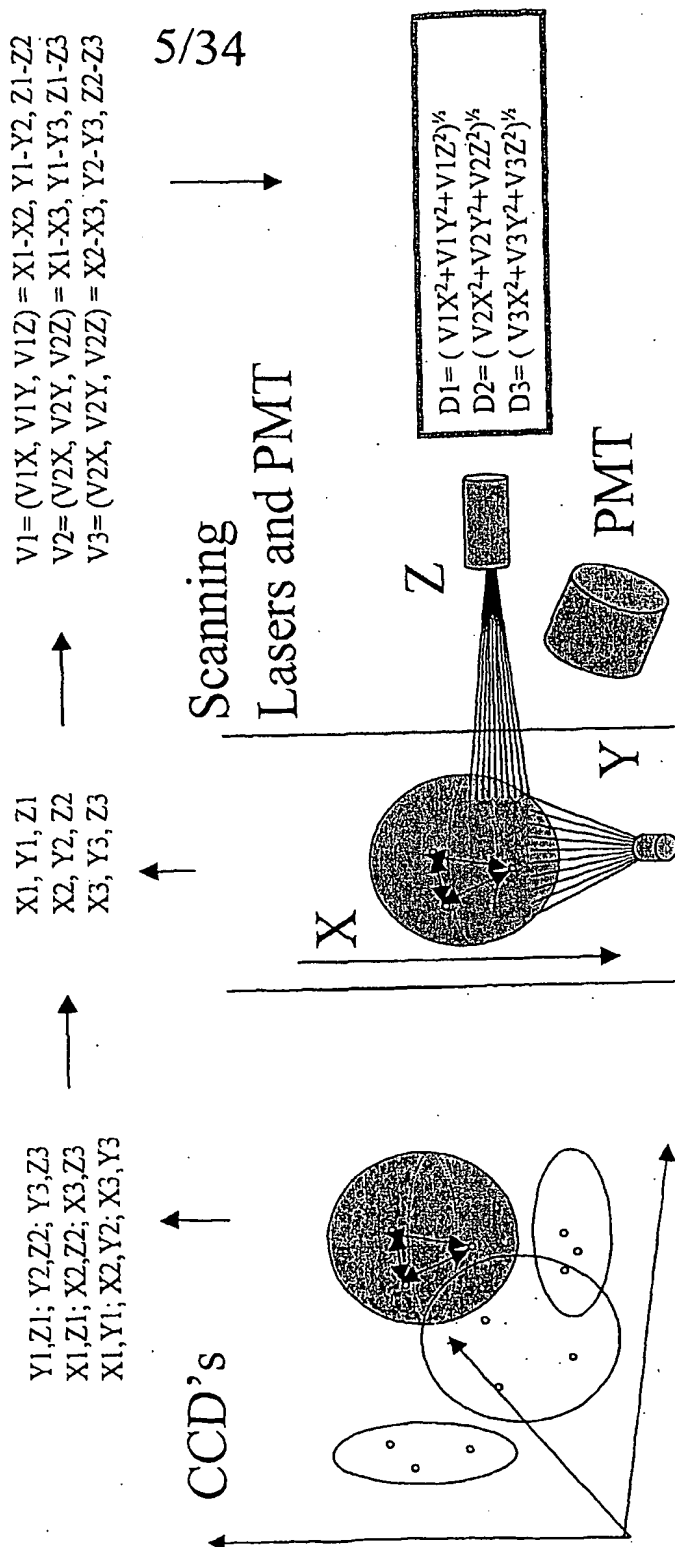
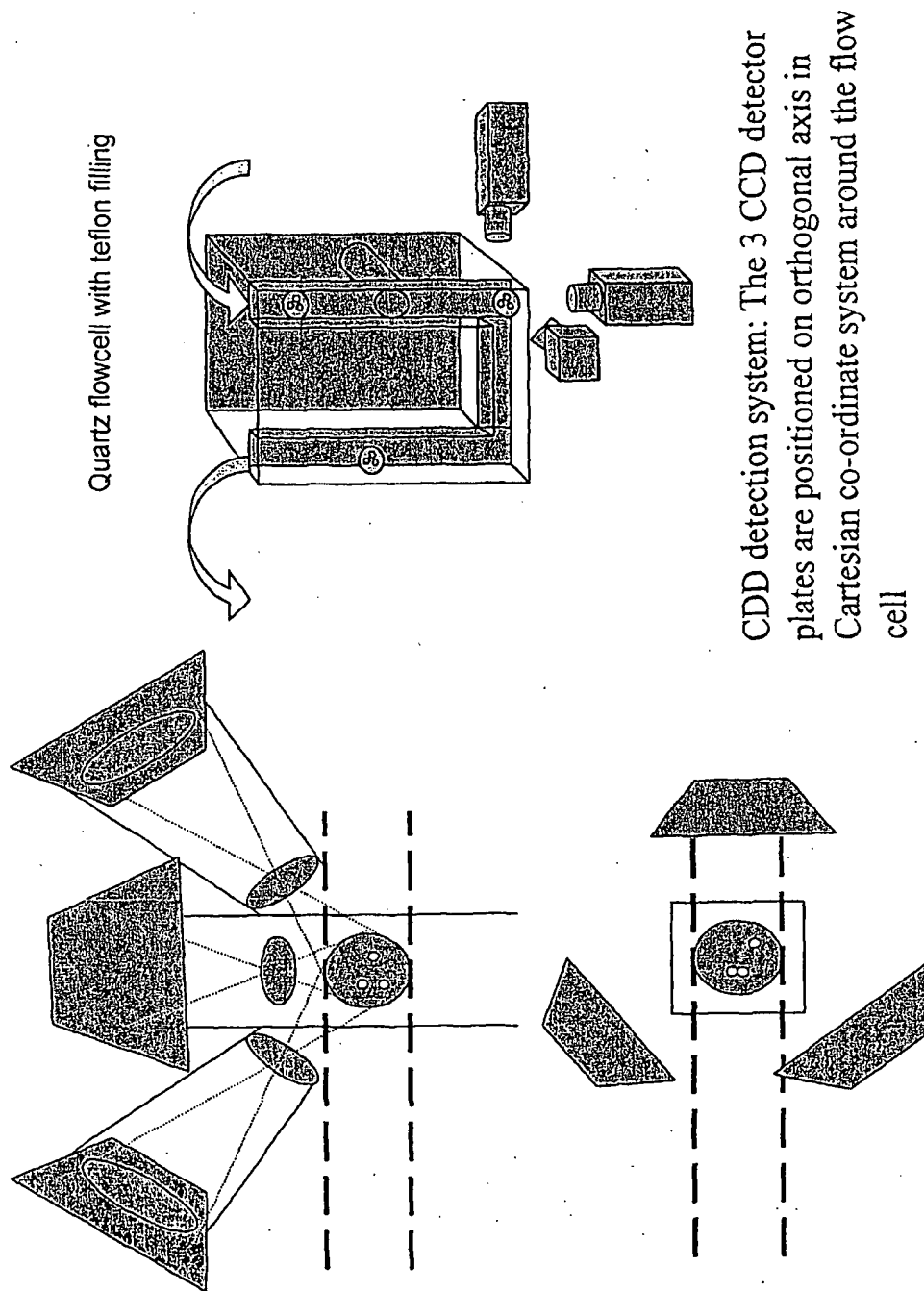


Fig. 1

Spatial encoding of beads



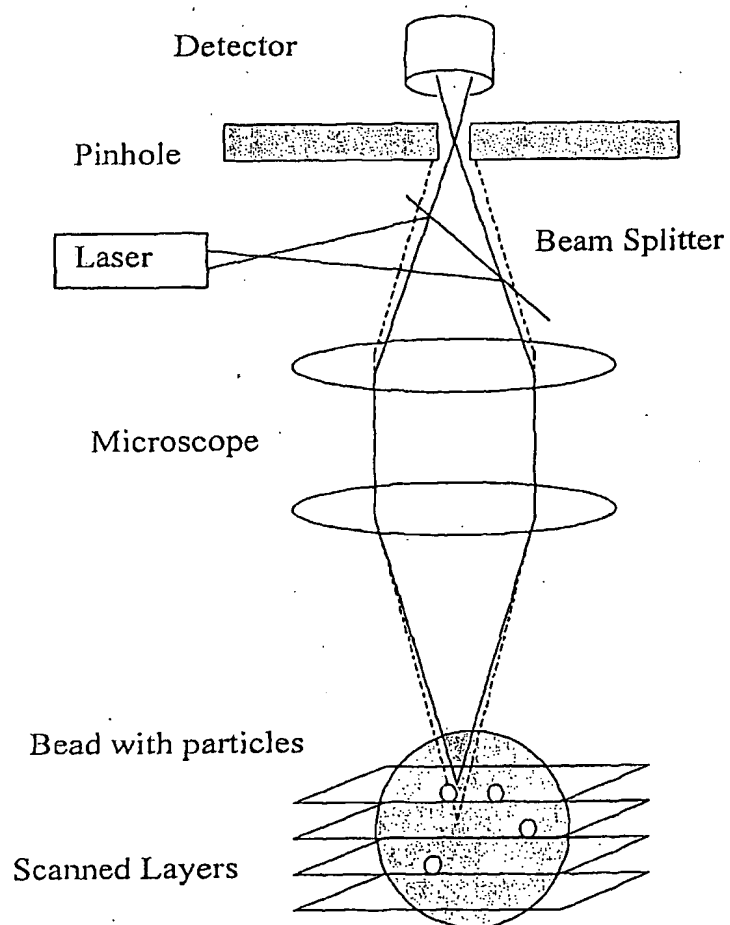
6/34

Fig. 2
CCD detection

7/34

Fig. 3

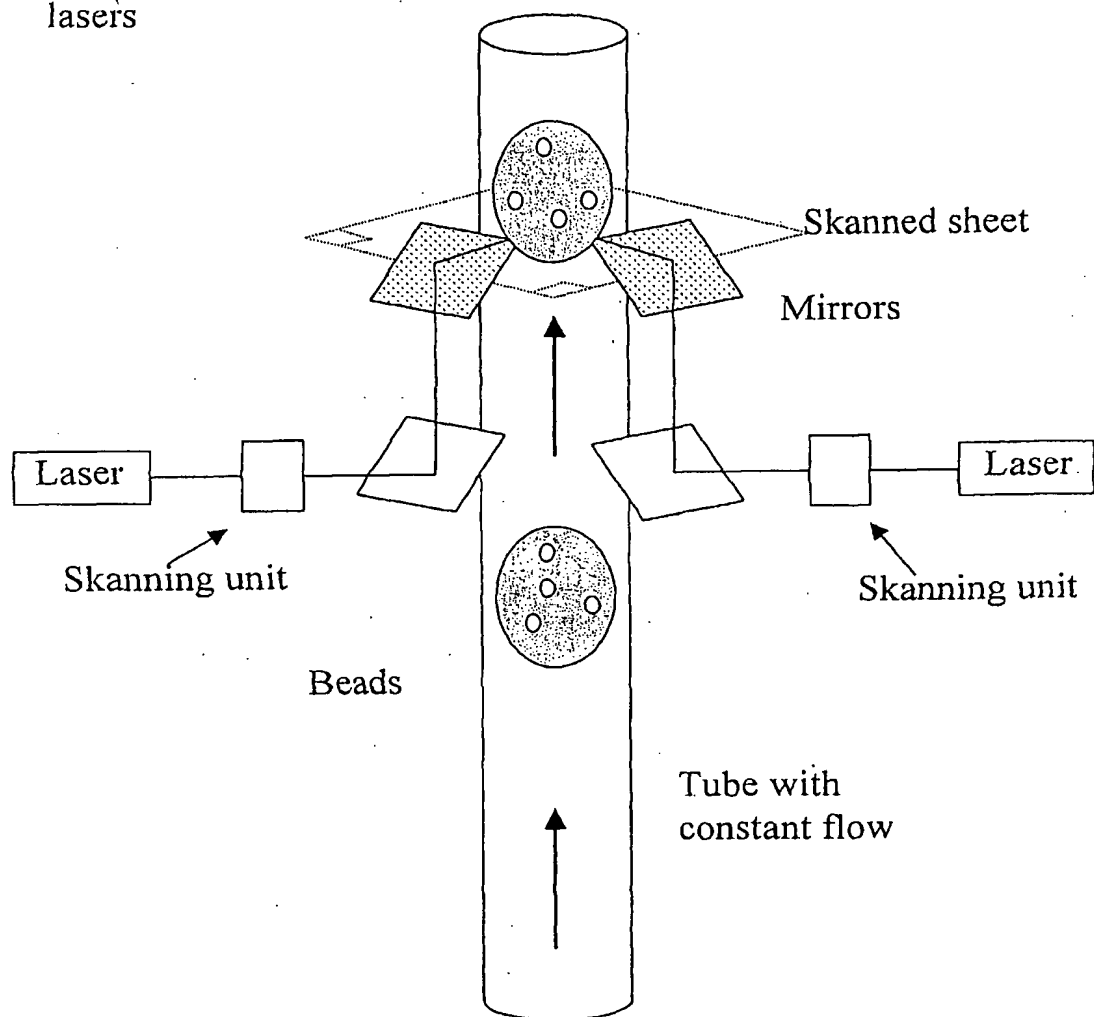
Recording of coordinates of particles in a bead using focal or confocal microscopy



8/34

Fig. 4

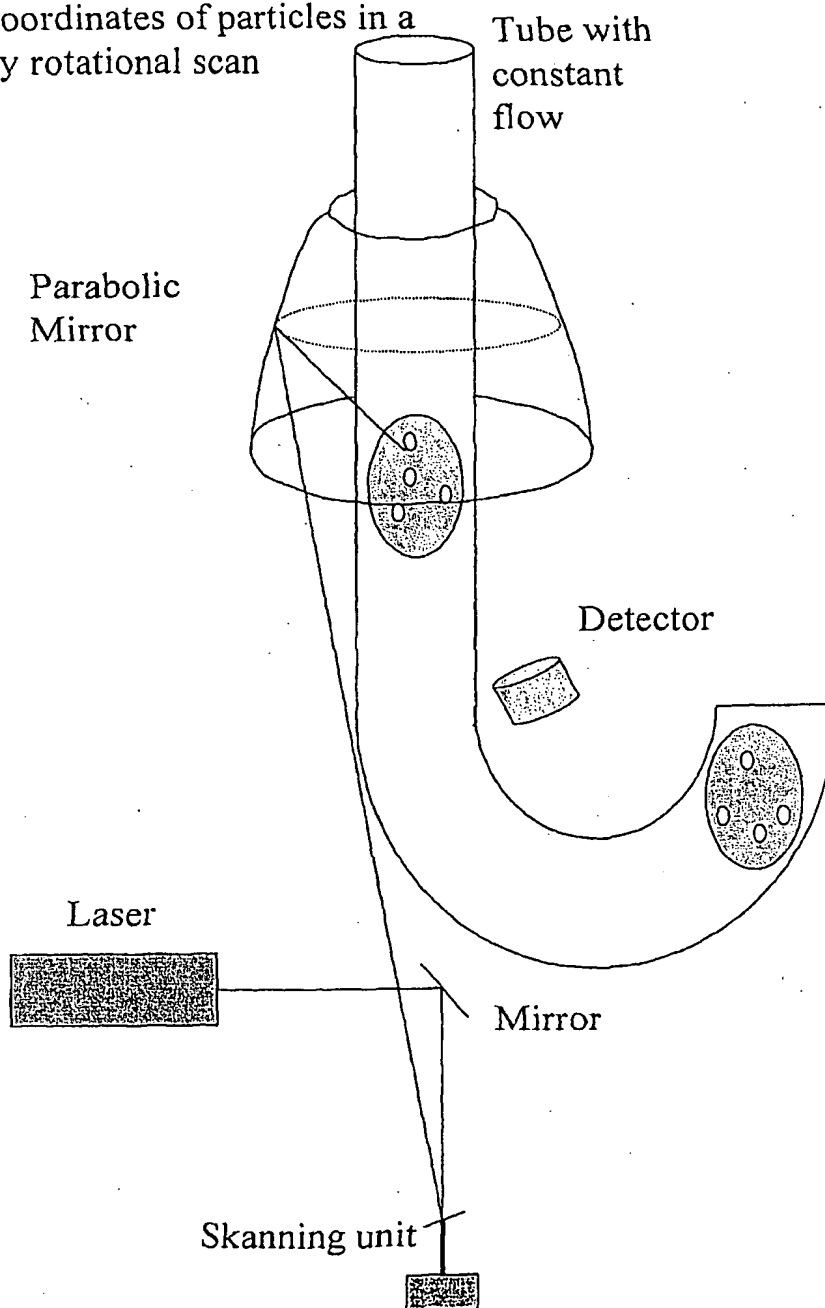
Recording of coordinates of particles in a moving bead by two alternating scanning lasers



9/34

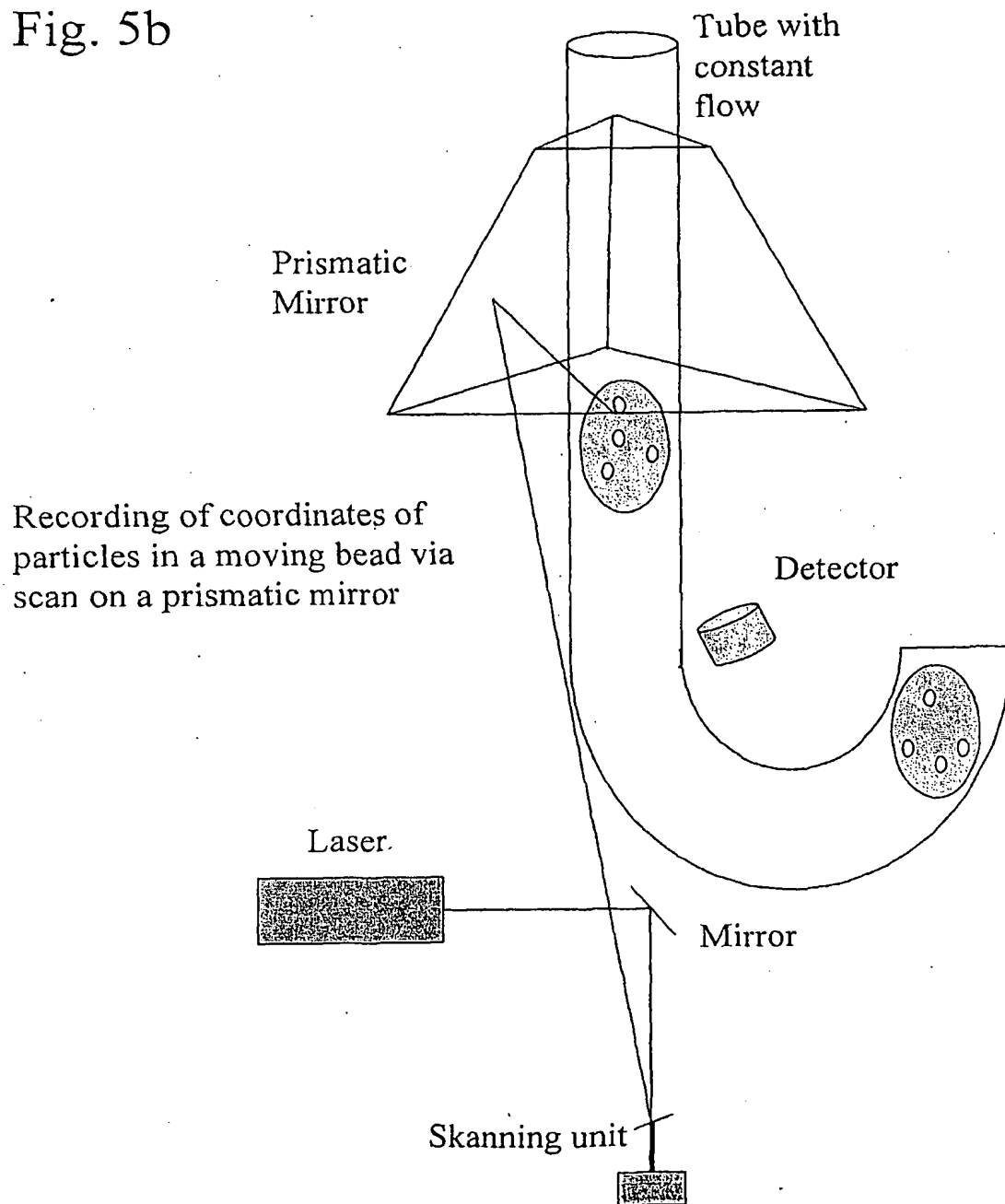
Fig. 5a

Recording of coordinates of particles in a
moving bead by rotational scan



10/34

Fig. 5b



11/34

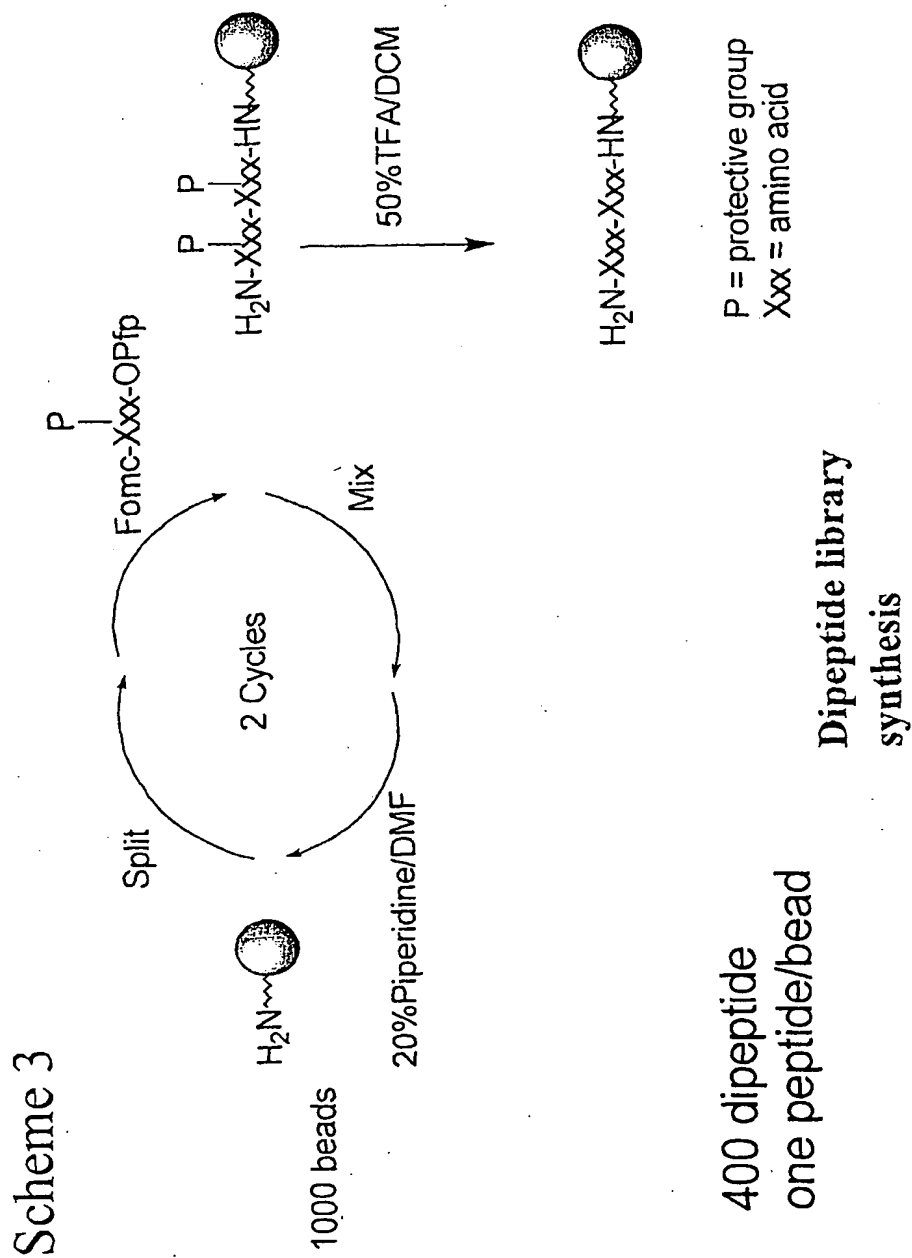
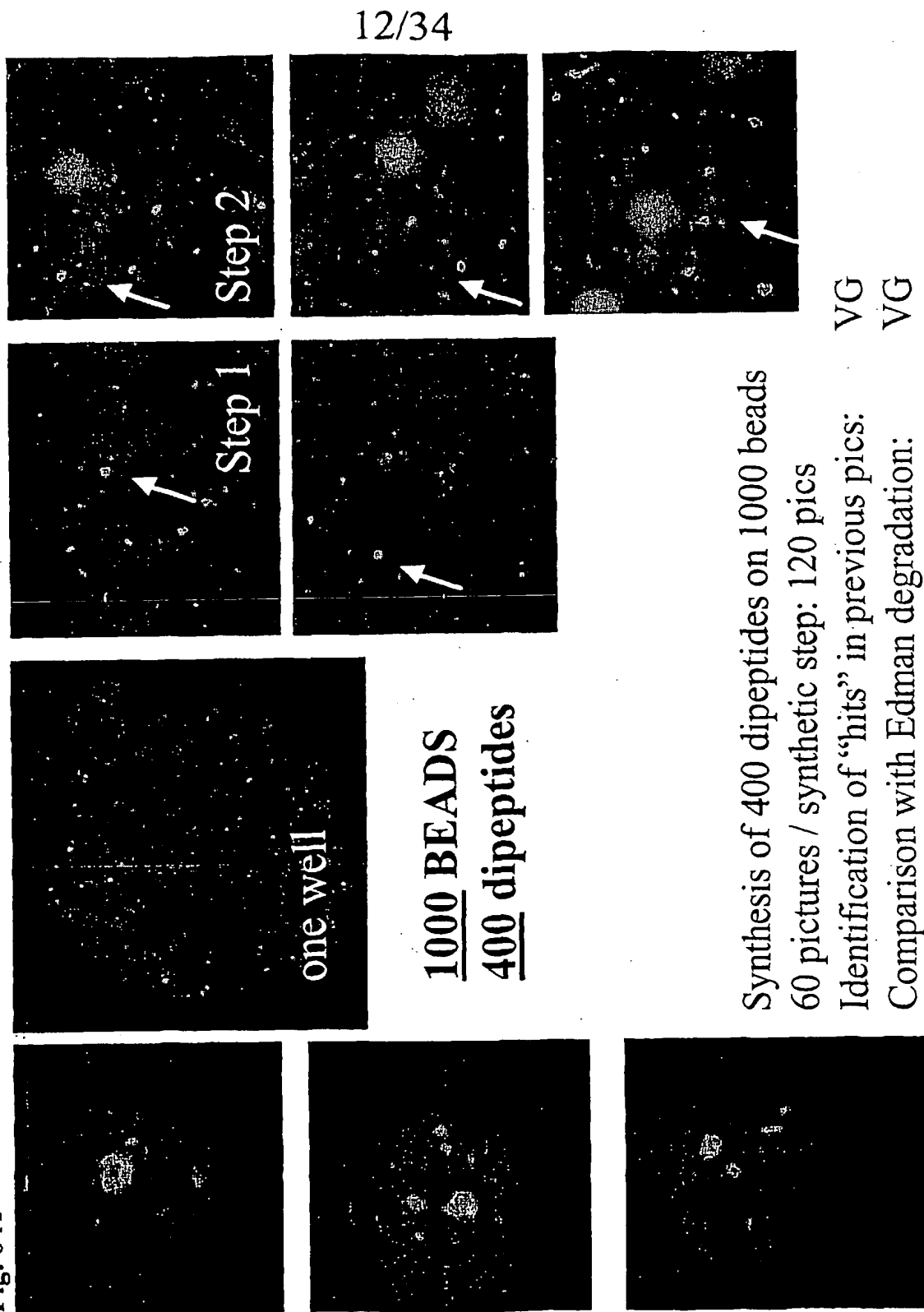


Fig. 6 A Visual decoding of dipeptide library



13/34

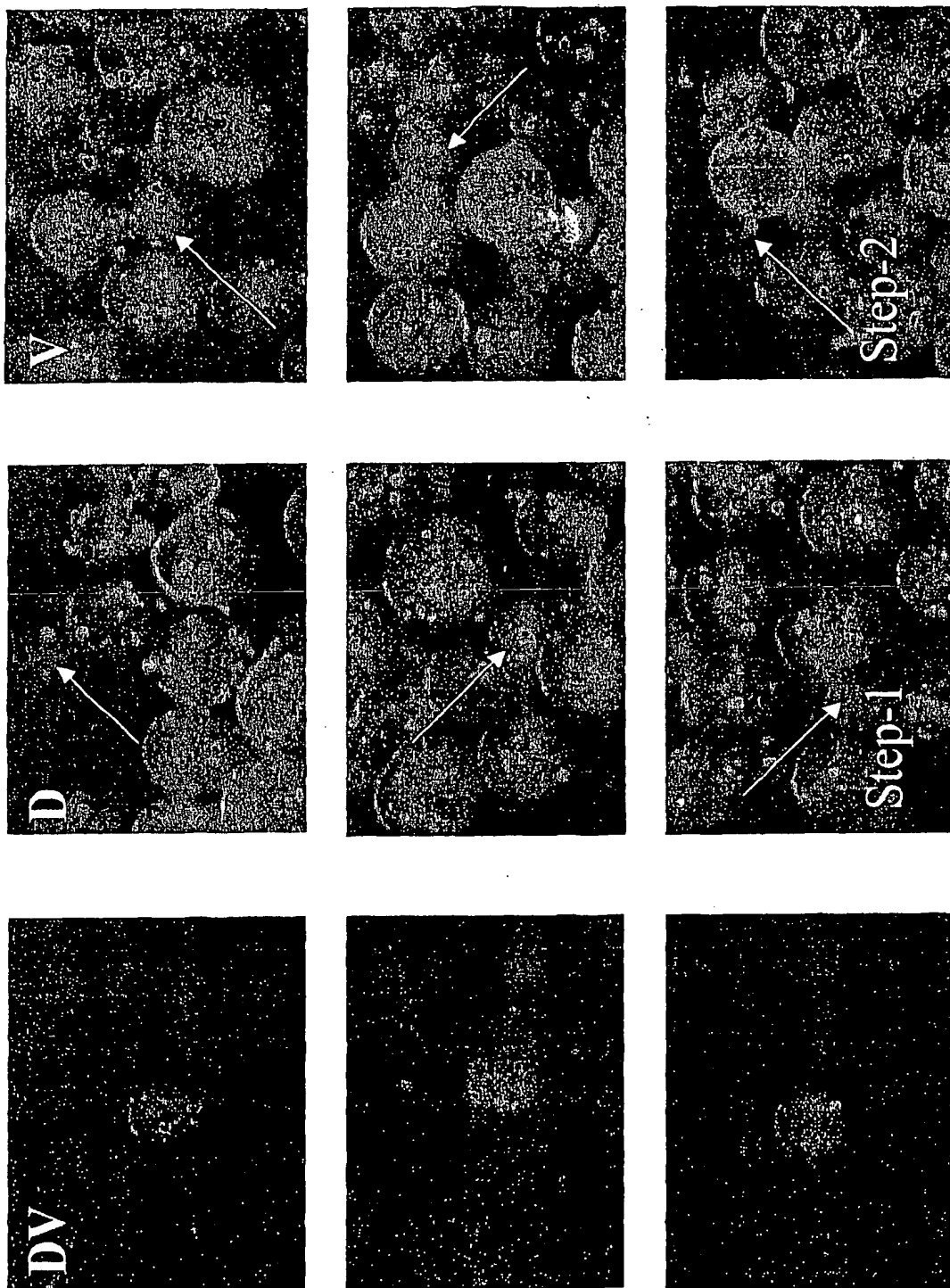


Fig. 6 B

14/34

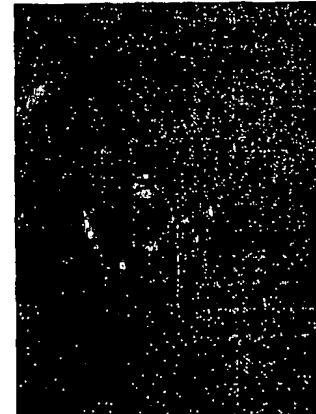
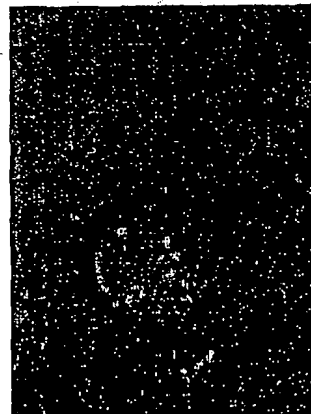
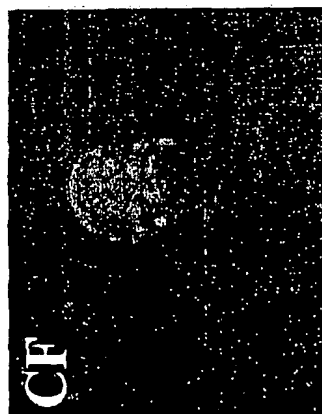
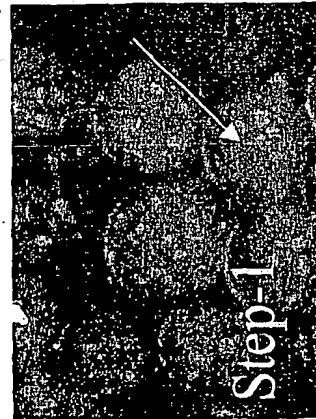
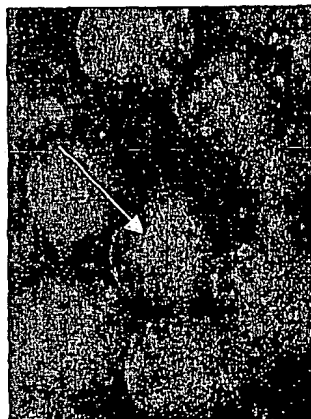
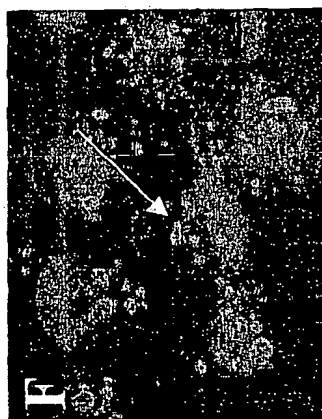
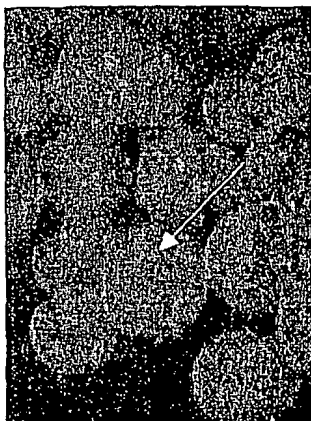
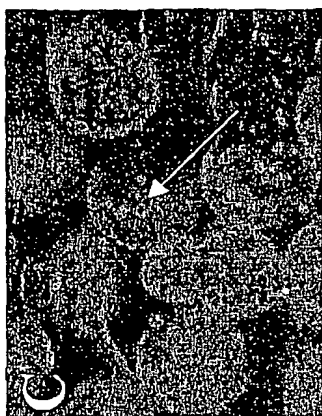
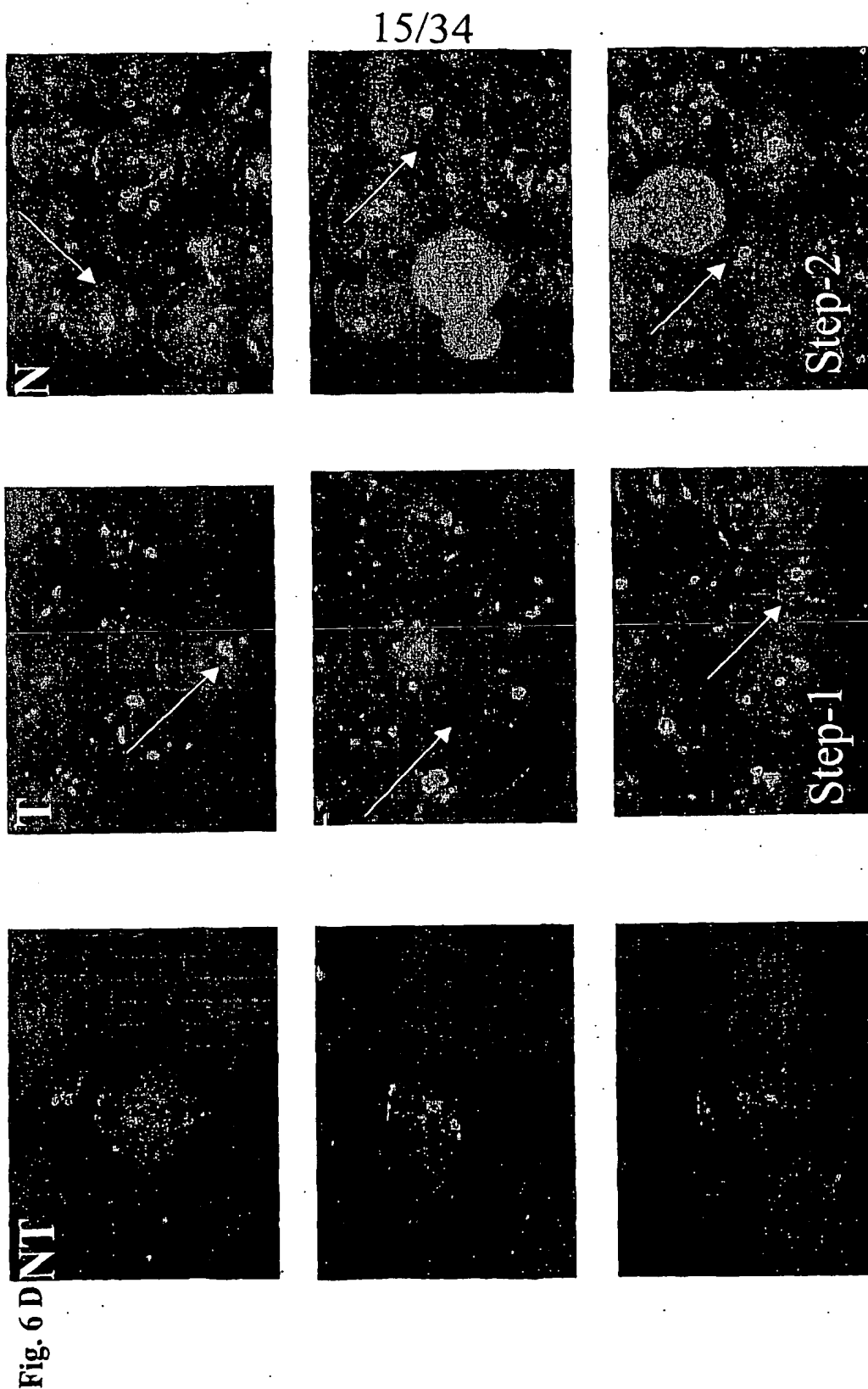
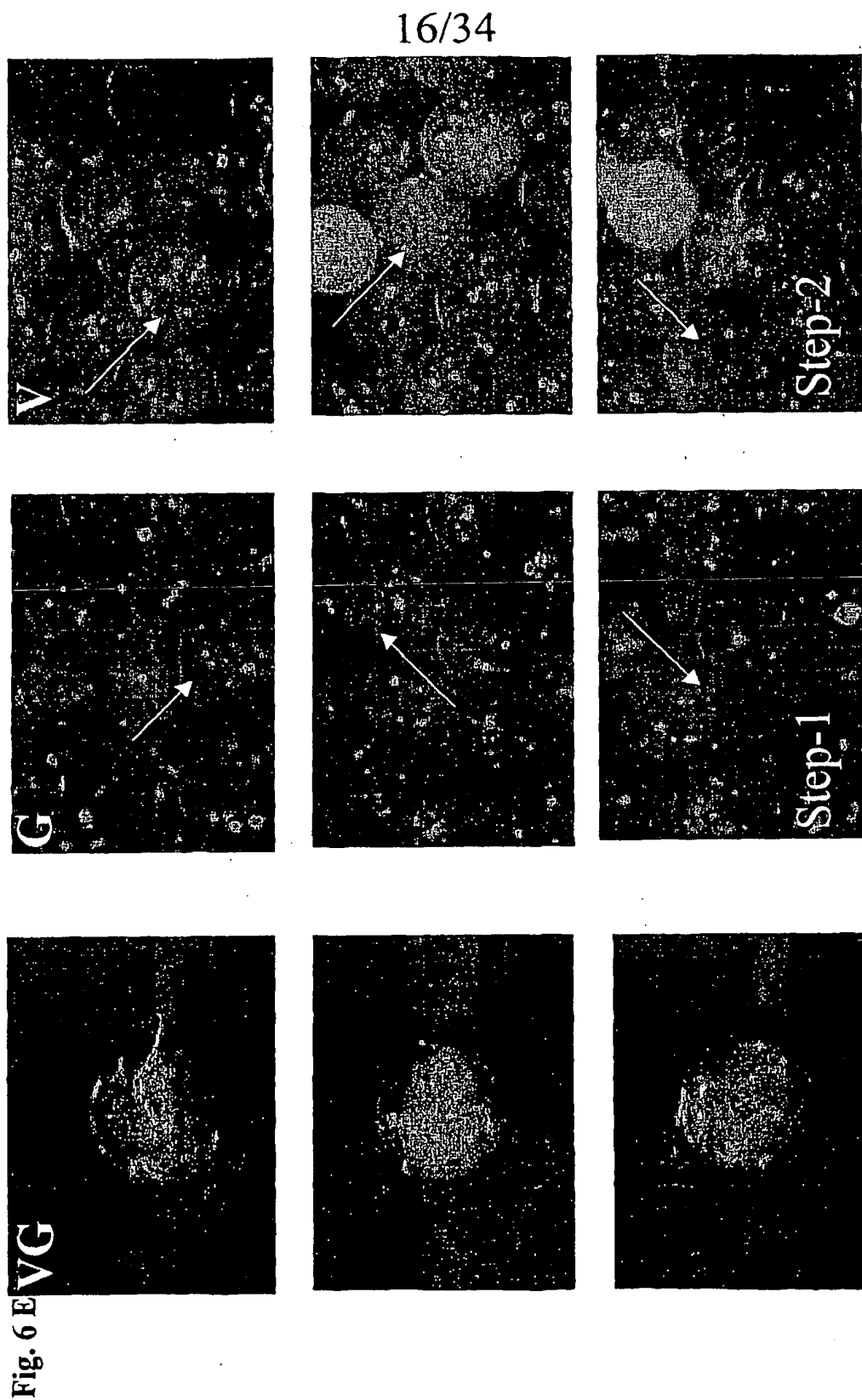
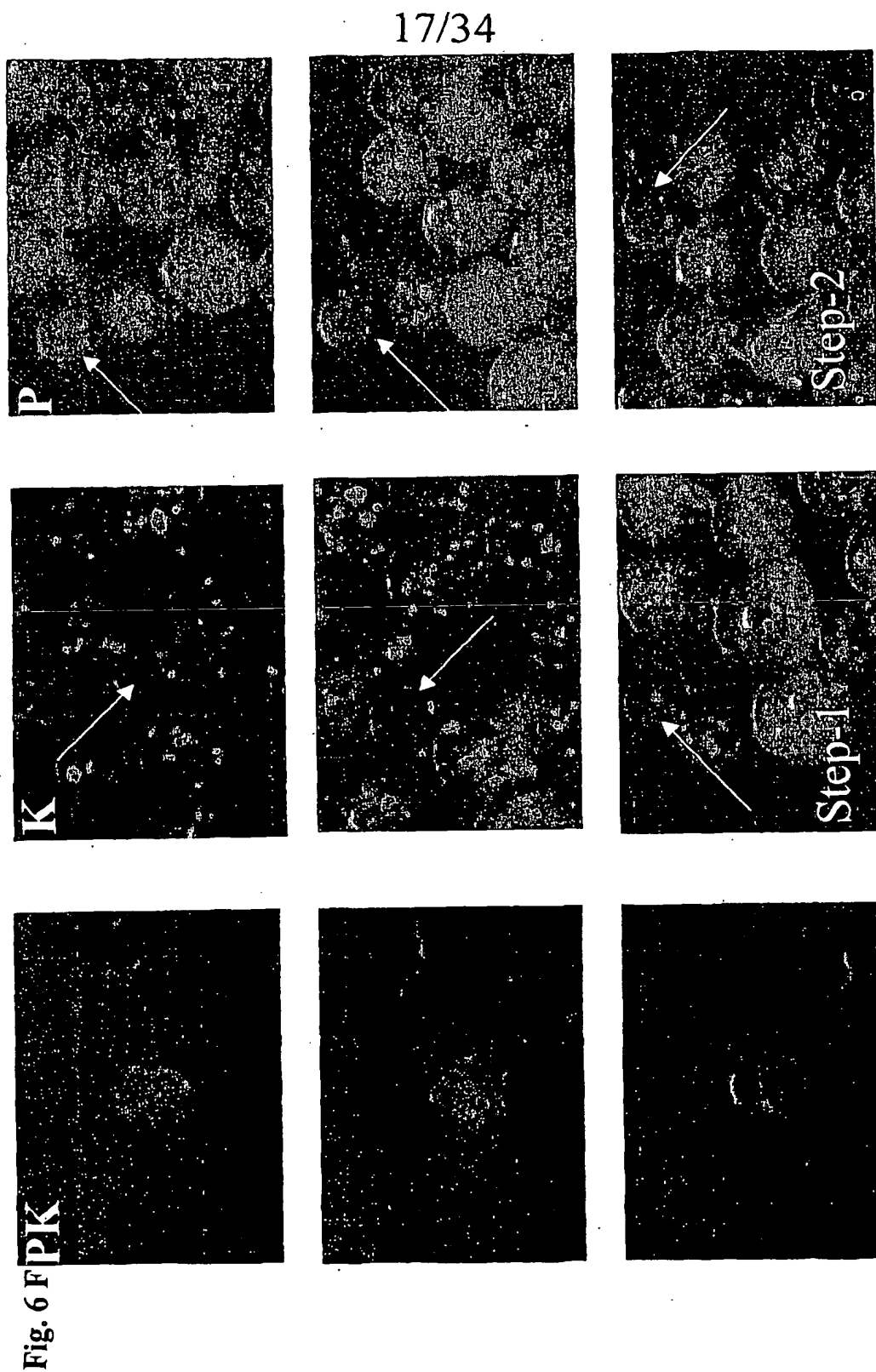


Fig. 6 C CF







18/34

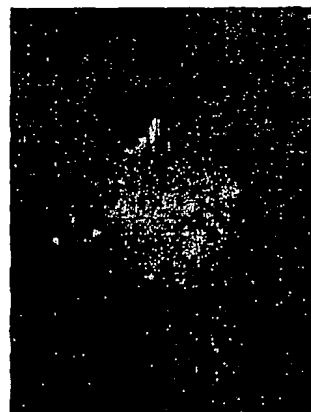
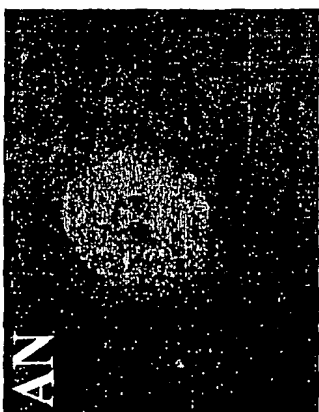
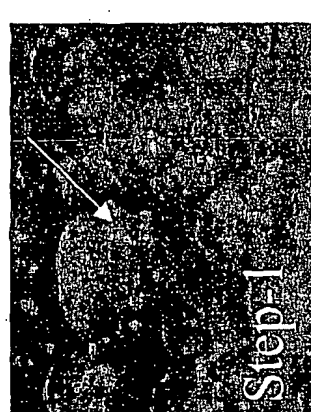
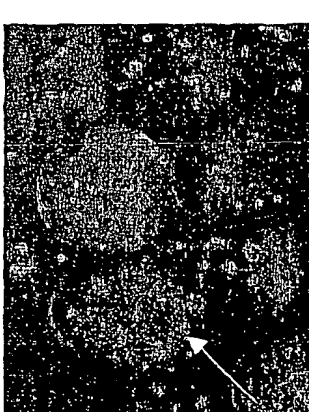
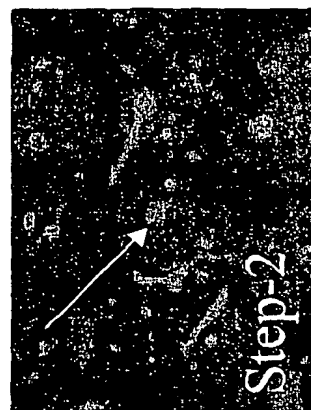
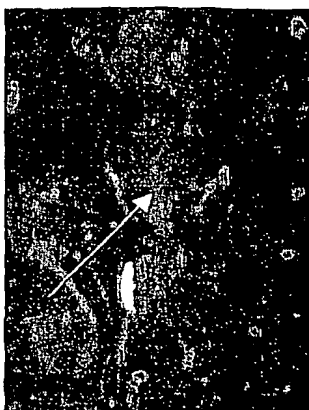
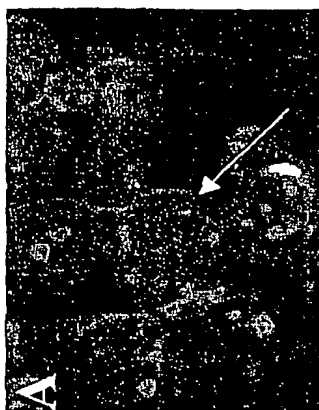
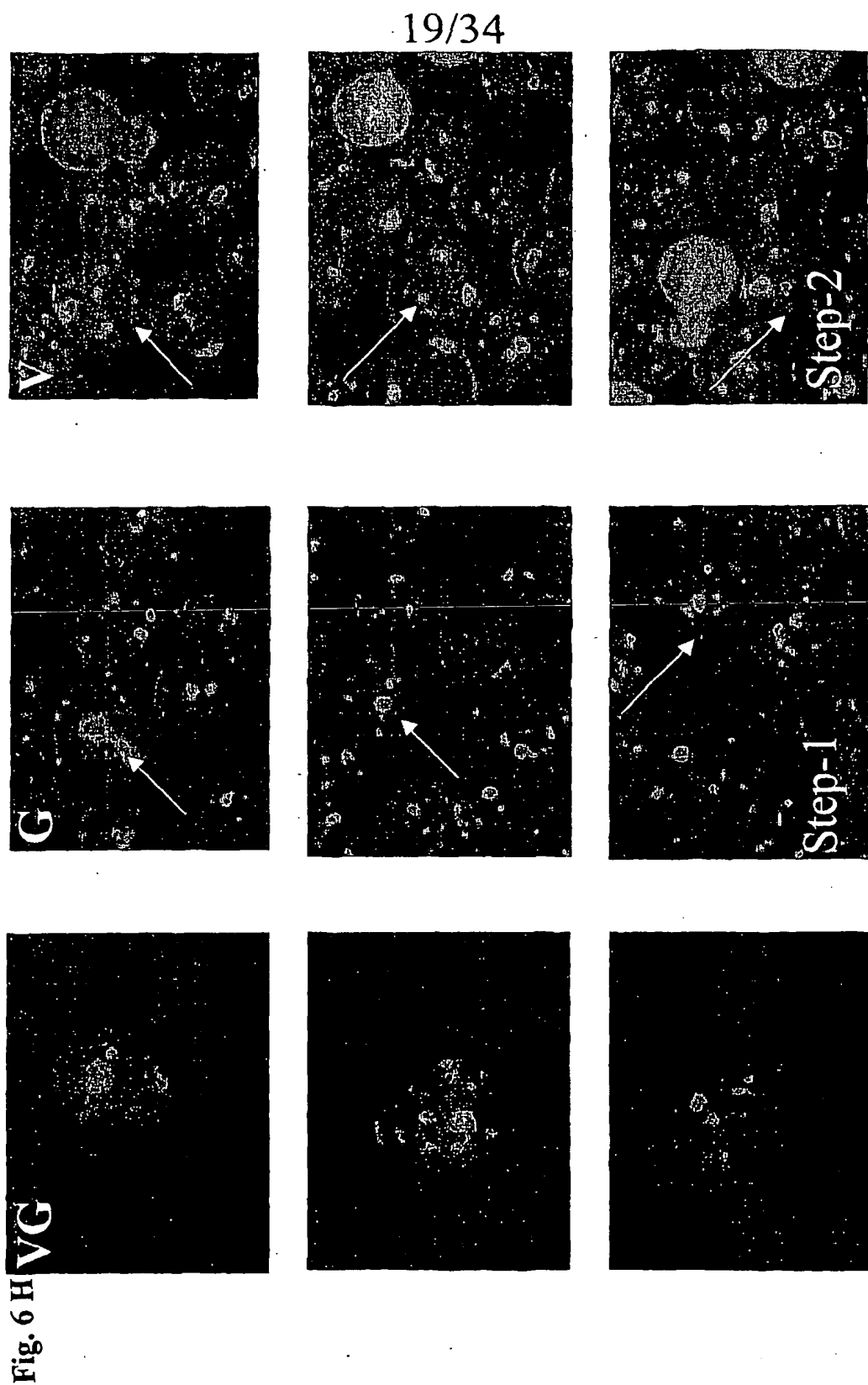


Fig. 6 G AN



20/34

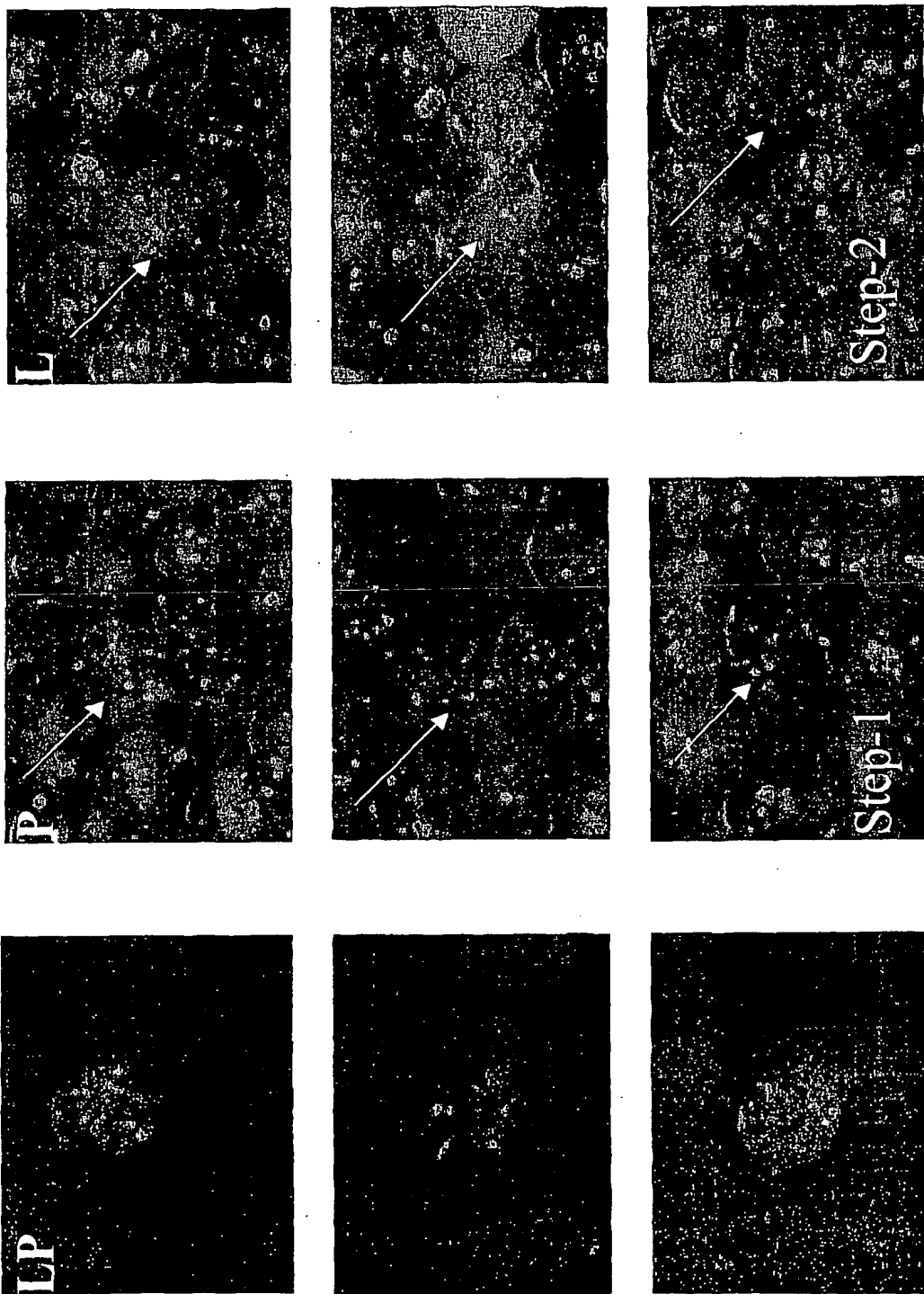


Fig. 6 I LP

21/34

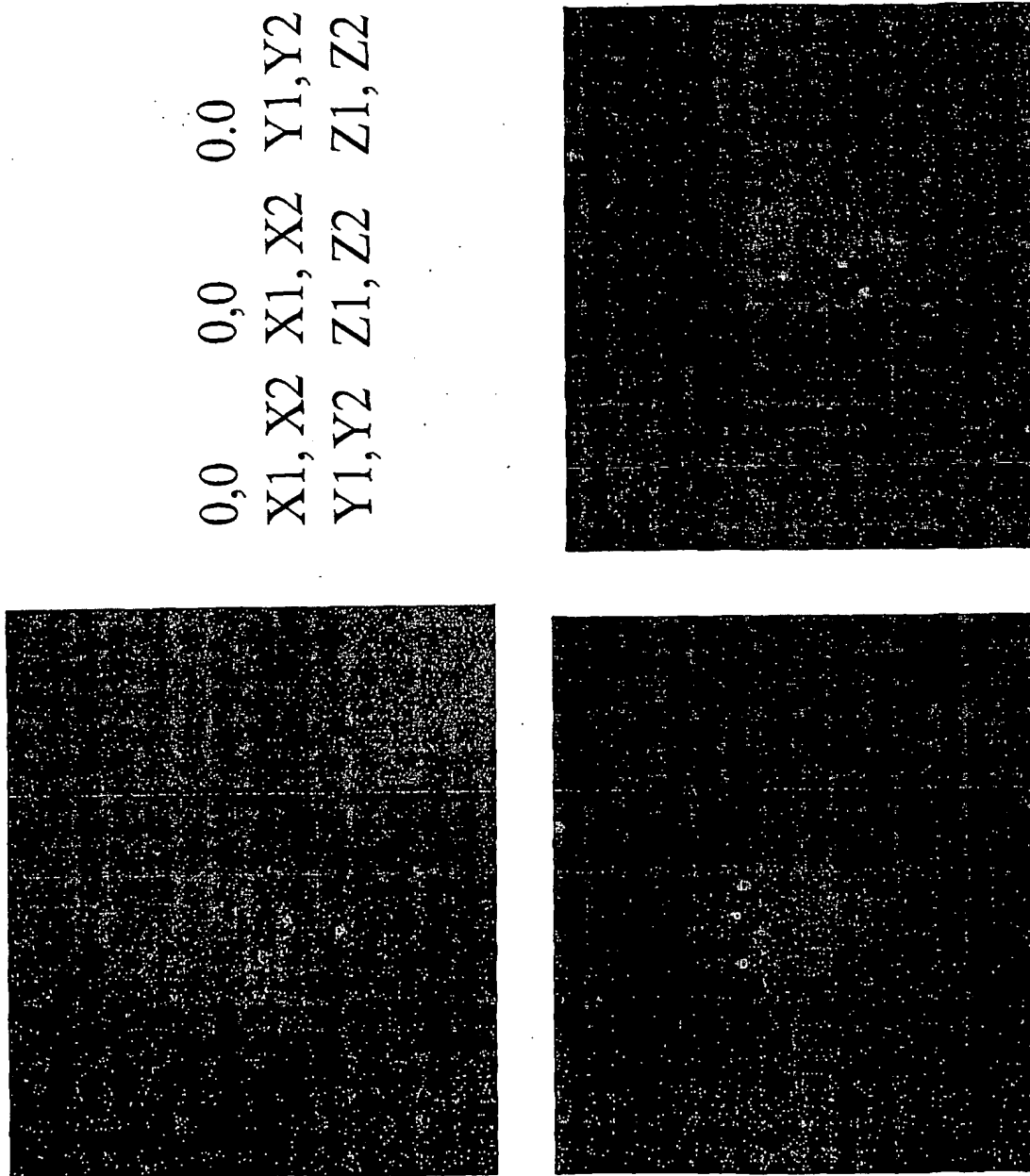
Table 1 Visual decoding of 20 beads from a library containing 400 dipeptides

	Seq	Pic	Other possible
1	CF	CF	
2	AT	AY	
3	DV	DV	
4	EV	EF	
5	FR	FD	
6	GM	GM	GF
7	IV	IV	IP
8	LP	LP	
9	WG	WW	
10	YW	YW	

	Seq	Pic	Other possible
11	HF	HL	
12	NT	NT	
13	AN	AN	
14	PH	PF	
15	PK	PK	
16	FR	FR	FH VR
17	VG	VG	
18	RQ	RQ	VQ
19	VG	VG	
20	AL	AL	VL AI

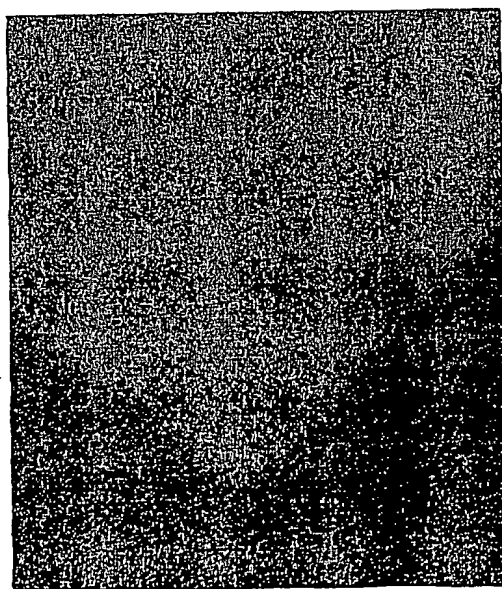
22/34

Fig. 7 A 3 Orthogonal pictures

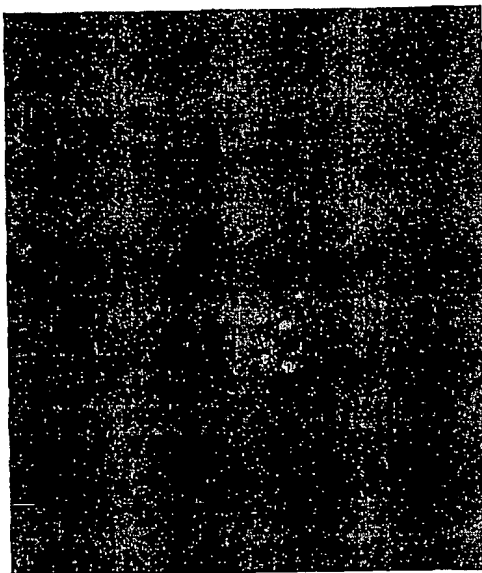
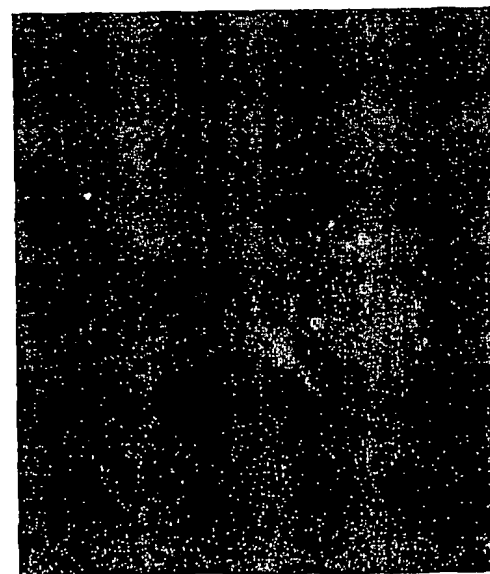


23/34

Fig. 7 B 3 Orthogonal pictures

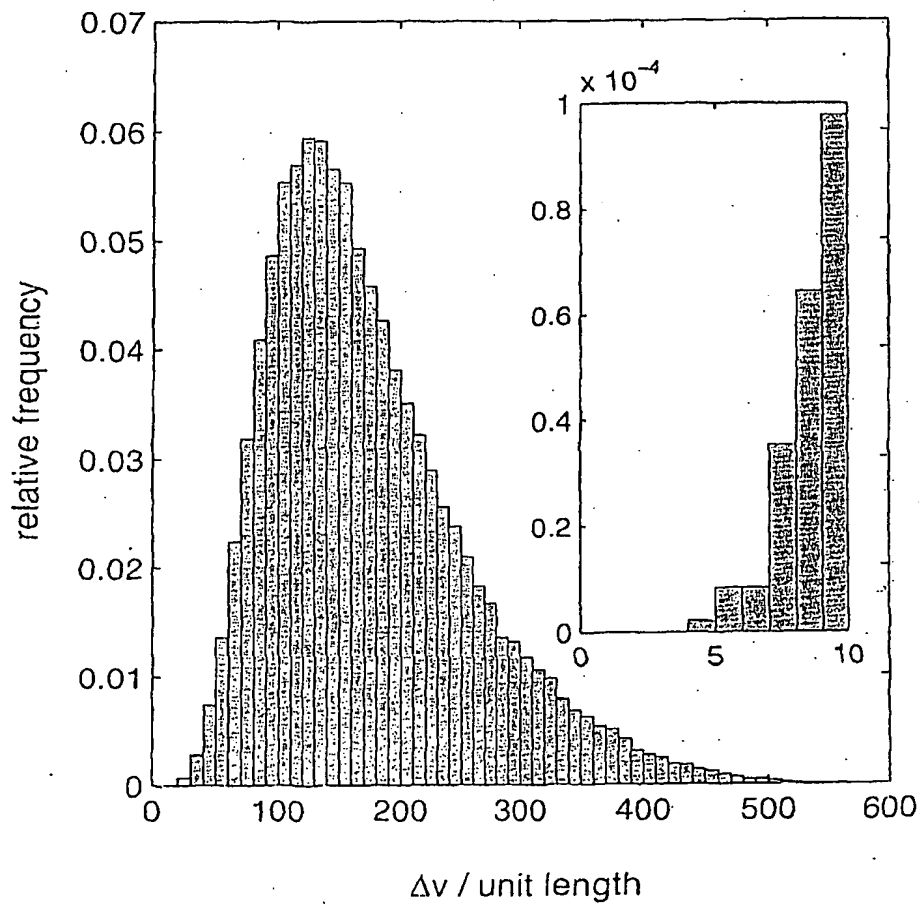


0,0	0,0	0.0
X1, X2	X1, X2	Y1, Y2
Y1, Y2	Z1, Z2	Z1, Z2



24/34

Fig. 8



25/34

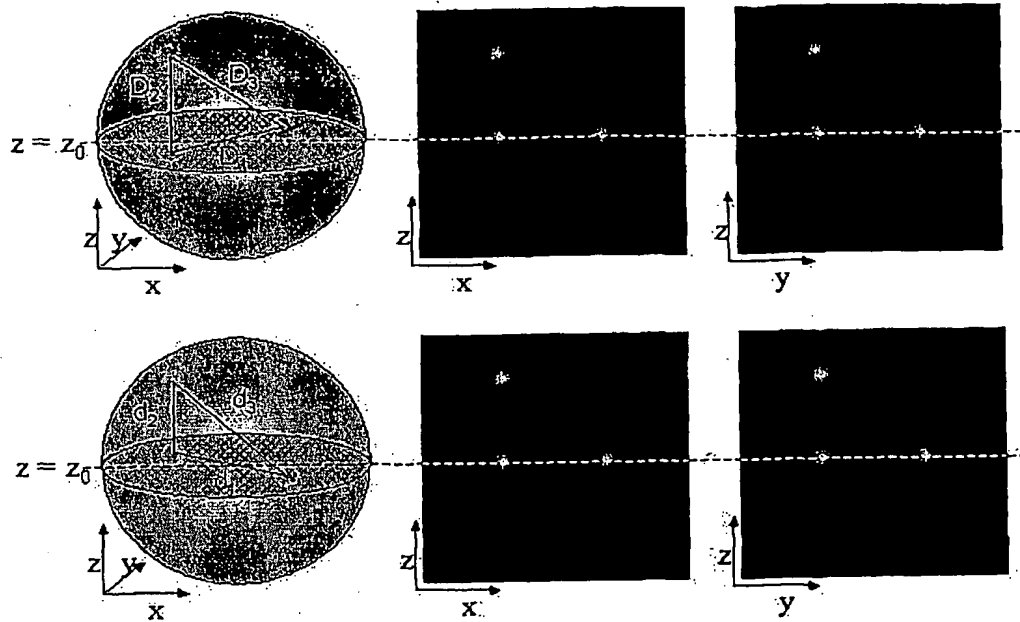


Fig. 9

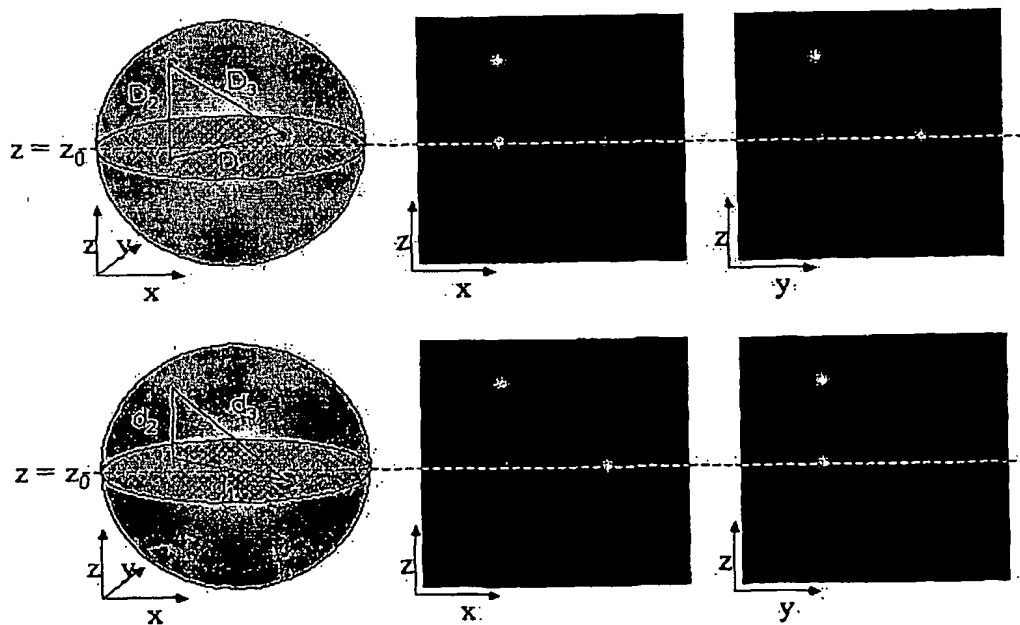
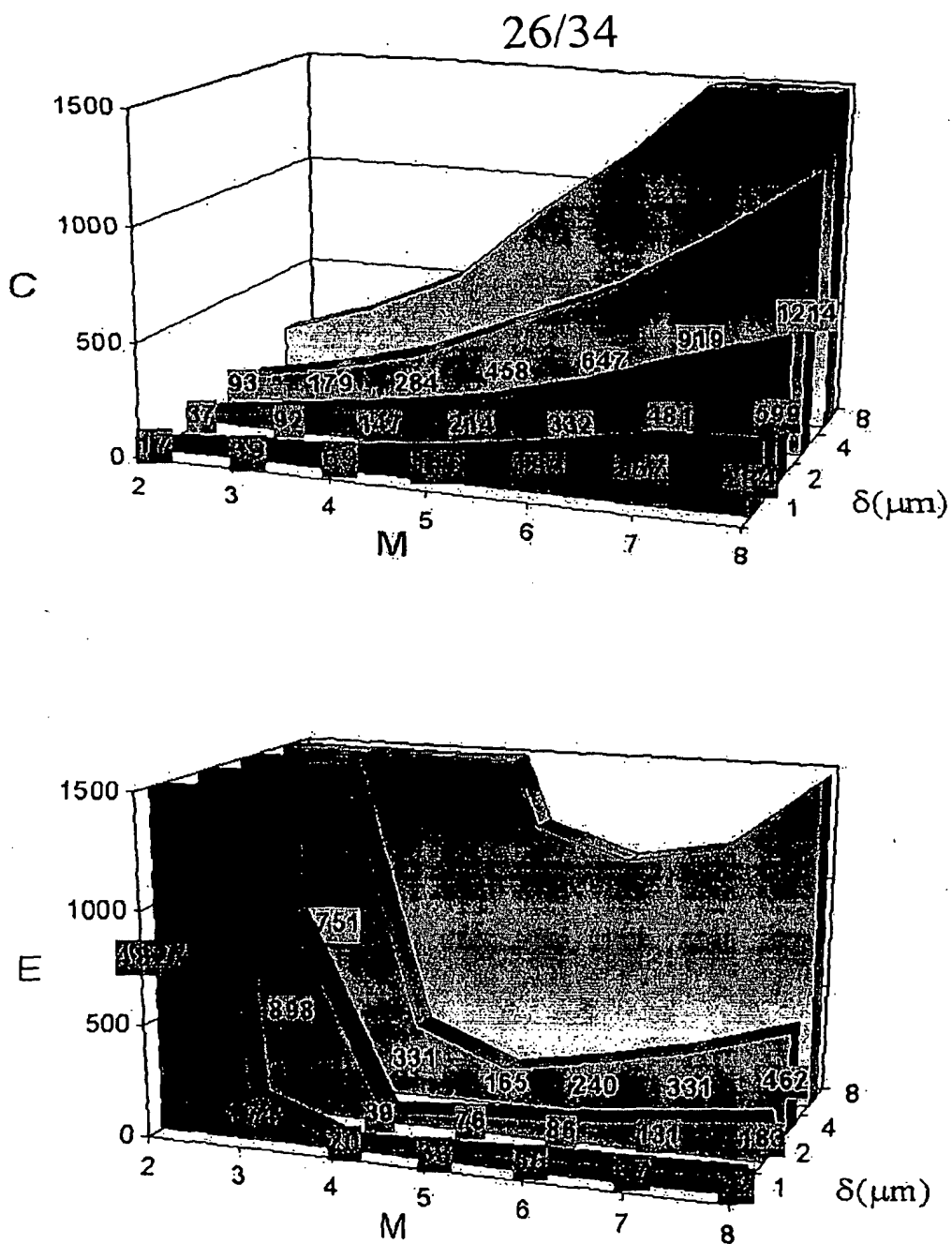


Fig. 10



27/34

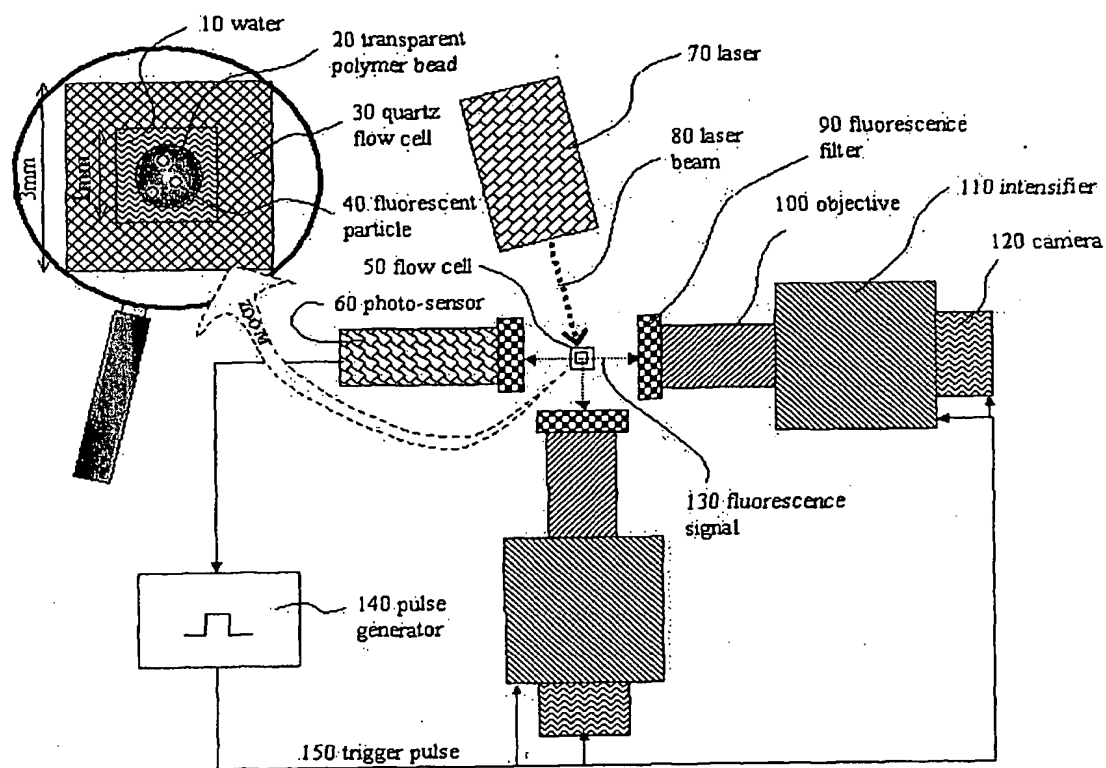


Fig.12

28/34

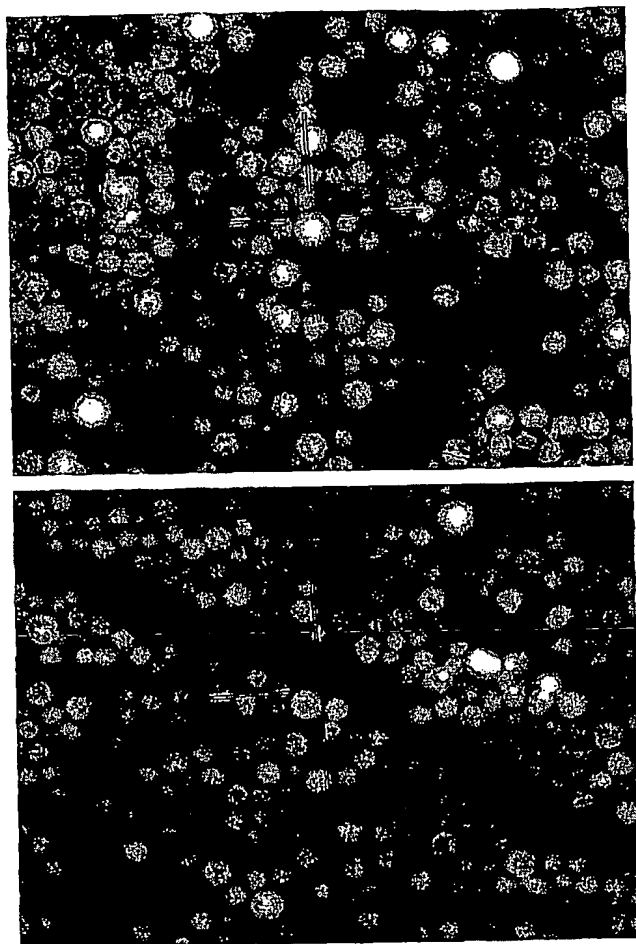


Fig. 13

29/34

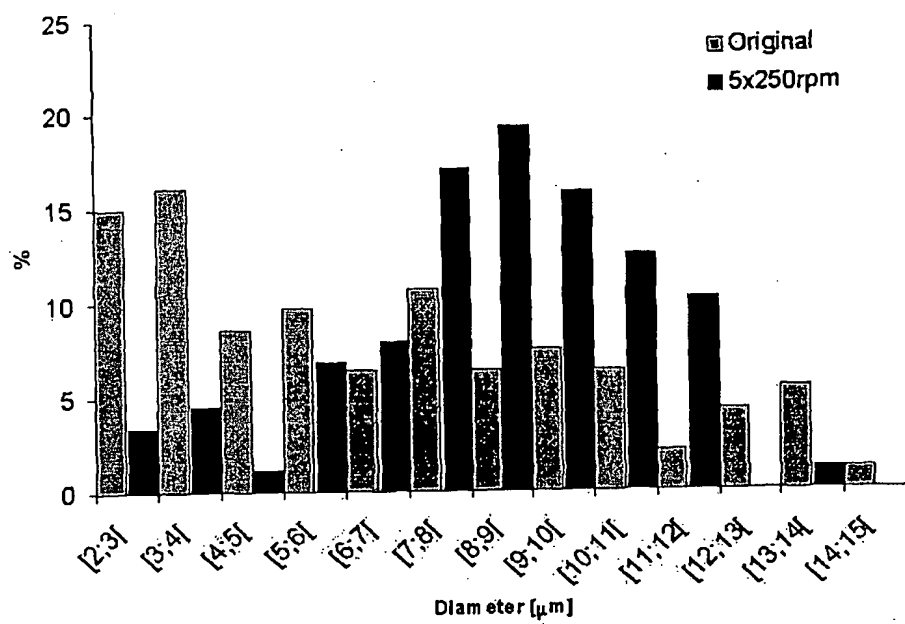


Fig. 14

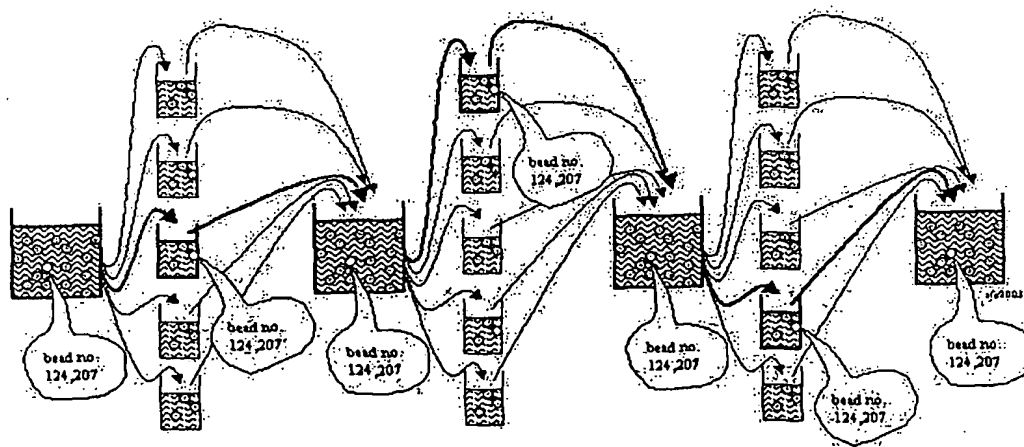


Fig. 15

30/34

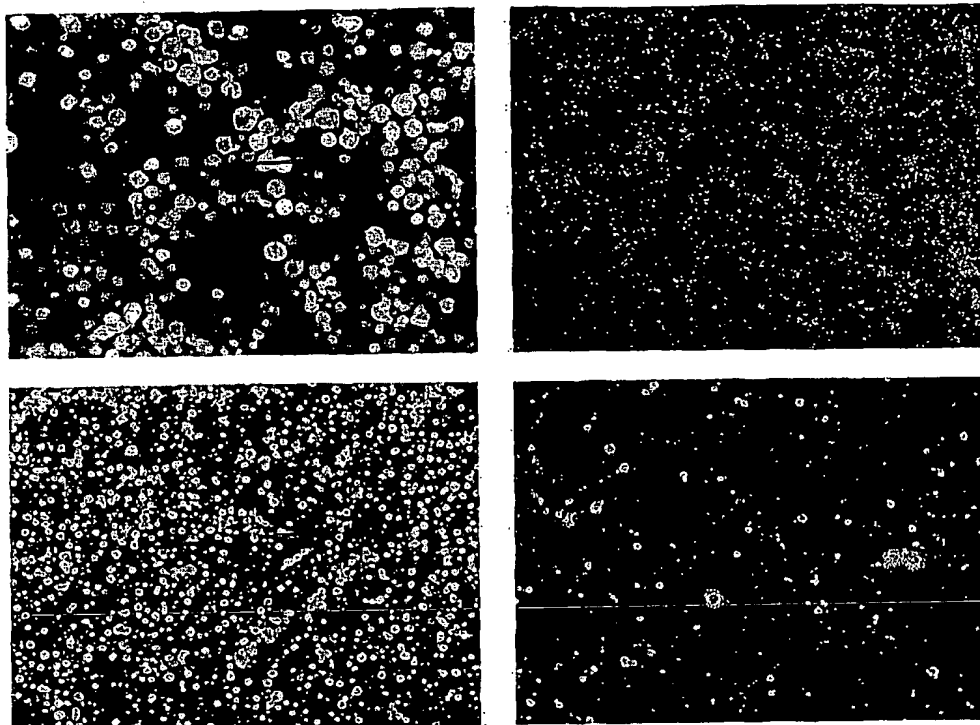


Fig. 16

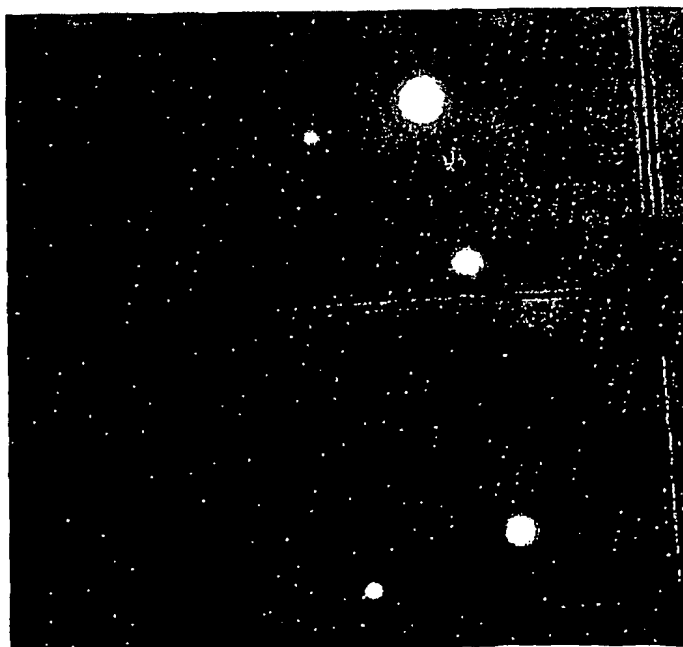


Fig. 17

31/34

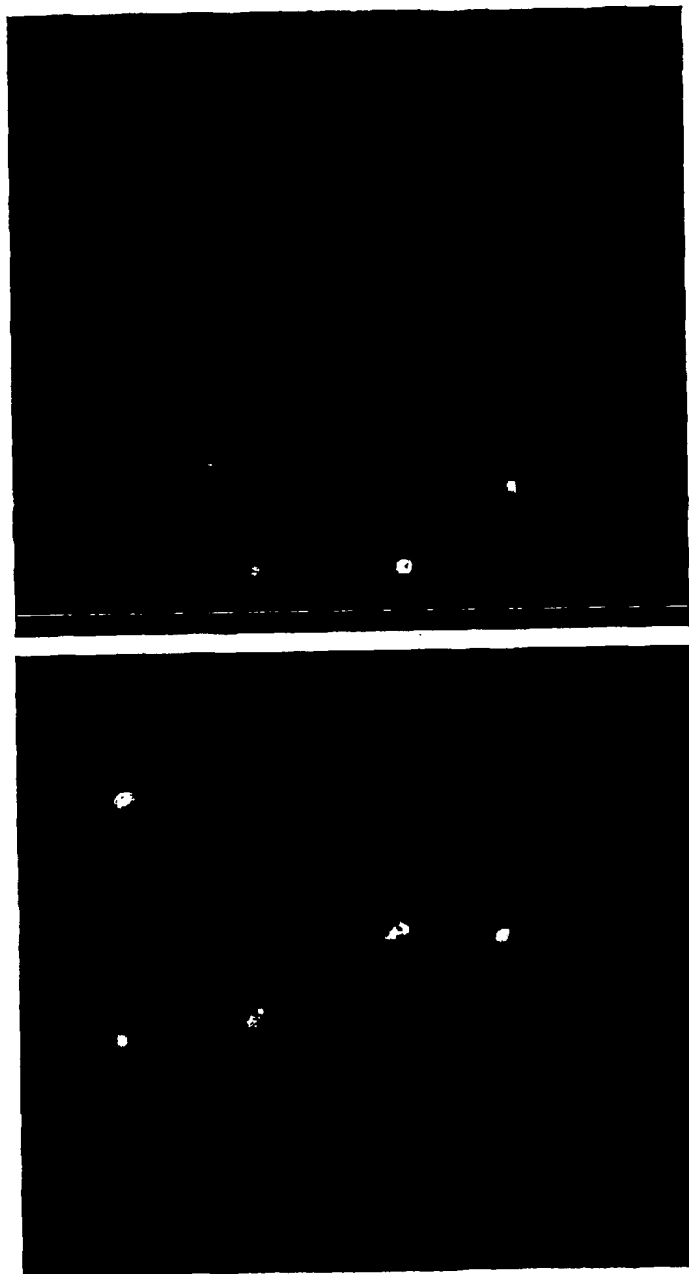


Fig. 18

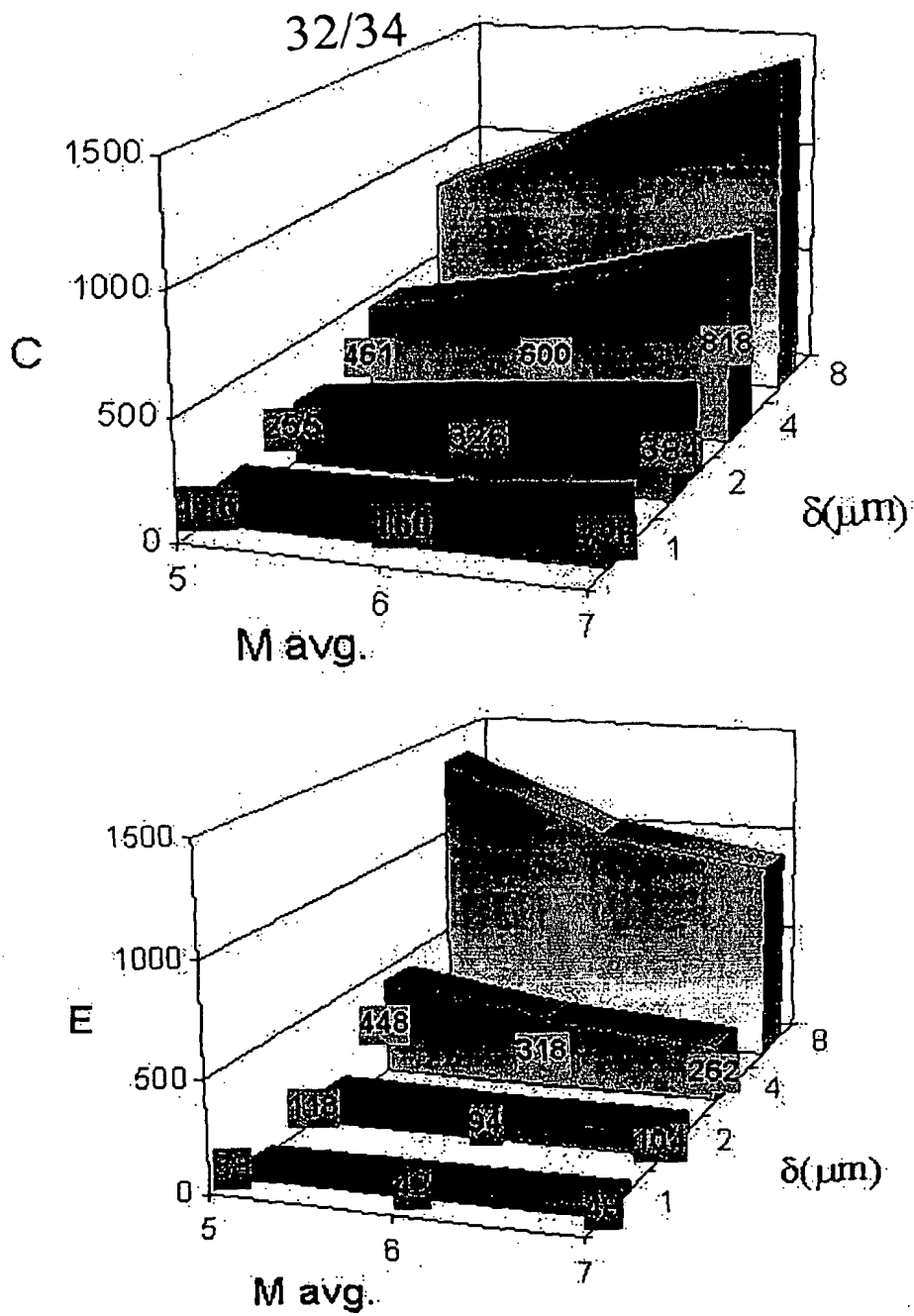


Fig. 19

33/34

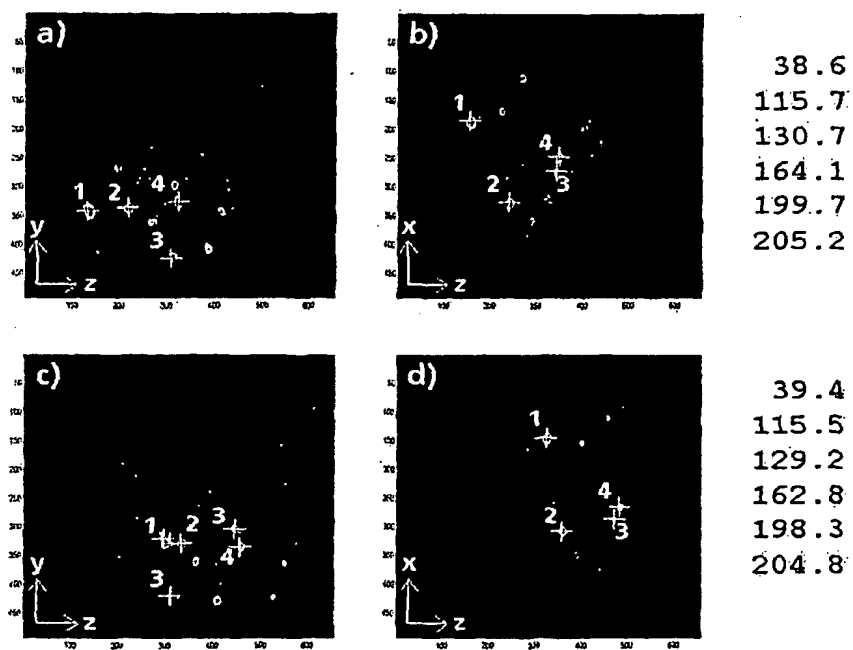


Fig. 20

34/34

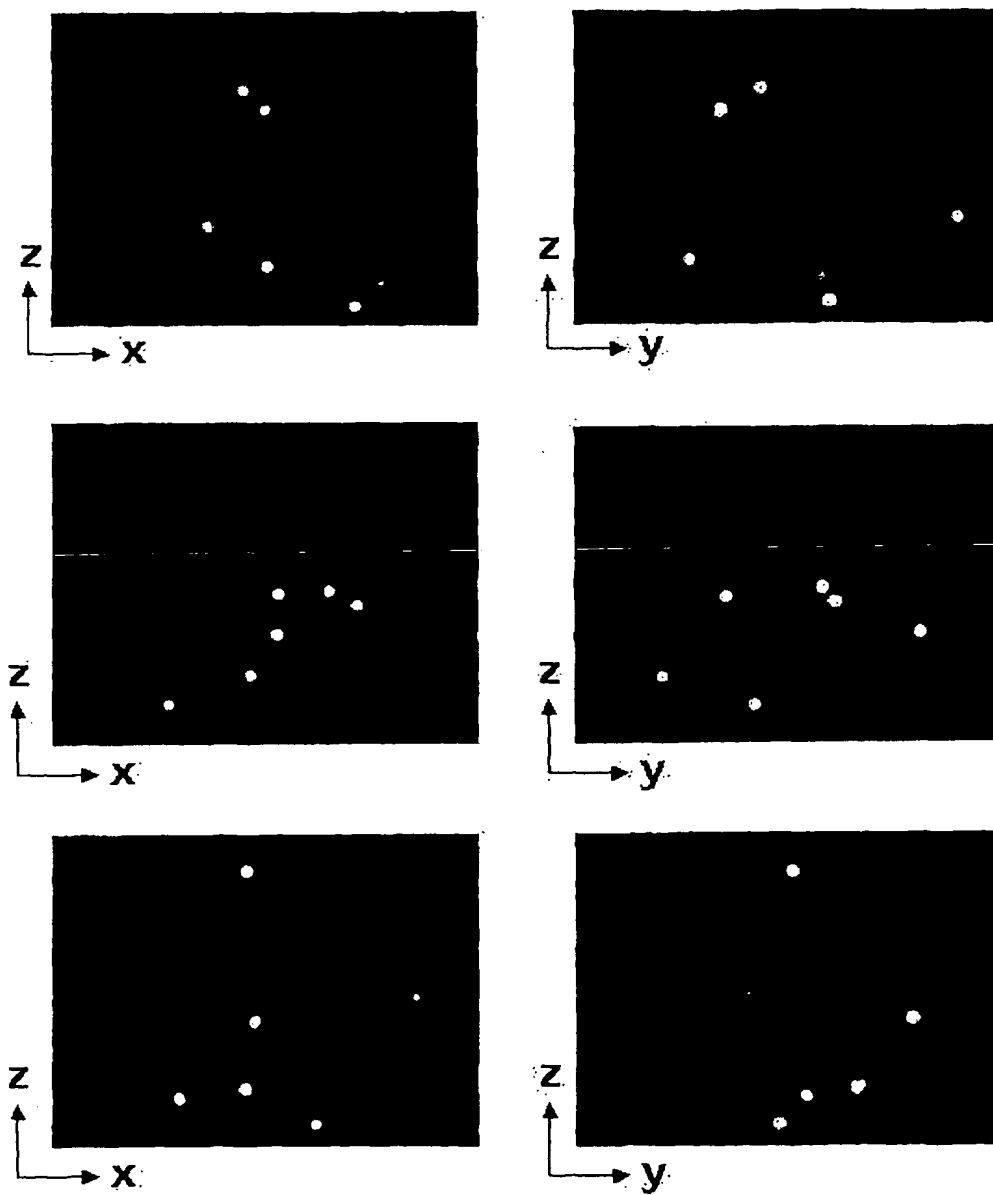


Fig. 21